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PPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/879,824	06/11/2001	Vishnu Balan	LSI-01-166 3472		
7590 02/26/2004			EXAMINER		
Timothy Cross			GLENN, KIMBERLY E		
LSI Logic Corp		ART UNIT	PAPER NUMBER		
Intellectual Property Law Department 1551 McCarthy Blvd., MS-D-106			2817		
Milpitas, CA		DATE MAILED: 02/26/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)	, ,				
Office Action Summary		09/879,82	24	BALAN ET AL.					
		Examiner		Art Unit					
		Kimberly E		2817					
Period fo	The MAILING DATE of this communication ap or Reply	pears on the	e cover sheet with the c	orrespondence addr	ess				
THE - Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statuting received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	136(a). In no even bly within the state will apply and wi e, cause the app	ent, however, may a reply be tinutory minimum of thirty (30) day II expire SIX (6) MONTHS from lication to become ABANDONE	nely filed s will be considered timely. the mailing date of this comr D (35 U.S.C. § 133).	nunication.				
1)⊠	Responsive to communication(s) filed on 11/1	7/2003.							
2a) <u></u> □	This action is FINAL . 2b) This action is non-final.								
3)□	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
4)	Claim(s) <u>1-36</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)🖂	☑ Claim(s) <u>1-21</u> is/are allowed.								
6)⊠	☑ Claim(s) <u>22,27 and 32</u> is/are rejected.								
7)🛛	☑ Claim(s) <u>23-26,28-31 and 33-36</u> is/are objected to.								
8)□	Claim(s) are subject to restriction and/o	or election re	equirement.						
Applicati	ion Papers								
9)[The specification is objected to by the Examine	er.							
10)	0) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)	The oath or declaration is objected to by the E	xaminer. No	te the attached Office	Action or form PTO	-152.				
Priority ι	ınder 35 U.S.C. §§ 119 and 120								
a)l	Acknowledgment is made of a claim for foreig All b) Some * c) None of: 1. Certified copies of the priority document Certified copies of the priority document None of: 2. Certified copies of the priority document Office of the priority document Office of the priority document None Office of the priority document None Office of the priority document Office of the None Office of the Office of t	ts have been ts have been ts have been trity document to find the certific priority under the sentence ovisional applic priority under the priorit	n received. In received in Application received in Application for the specification or plication has been received as 5 U.S.C. § 119(e) of the specification or plication has been received as 5 U.S.C. §§ 120	on No ed in this National State d. e) (to a provisional apin an Application Date	oplication) ata Sheet.				
16	Solonice was included in the first sentence of the	ie specilical	non or in an Applicatio	n Dala Sheet. 37 Ch	T 1./0.				
Attachmen	• •								
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) _	·	4) Interview Summary 5) Notice of Informal P. 6) Other: .						

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 22, 27 and 32 are rejected under 35 U.S.C. 102(e) as being anticipated by Marvin et al US Patent 6,559,730.

1. Marvin et al in figure 6 disclose a circuit for controlling a frequency of a crystal oscillator 212 being coupled between an input node 216 and output node 218, the circuit comprising a first capacitor array 222 coupled between the input node and a reference voltage 242, the first capacitor array including a first plurality of switched capacitors 236-240 and having a first total capacitance; a second capacitor array 226 coupled between the output node and the reference voltage 242, the second capacitor array including a second plurality of switched capacitors 256-260 and having a second total capacitance; a input 255 for receiving a frequency control signal

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and a capacitance controller 244 coupled to the first capacitor array 222 and the second capacitor array 226 for switching a switched capacitor in the first capacitor array and a switched capacitor in the second capacitor based on the frequency control signal A0-A9. Marvin et al states that the capacitors are individually switchable to be active or inactive. Therefore, the capacitors of both capacitor arrays can be alternately switched into and out of the circuit based on the desired frequency. The switching of the capacitors does not necessary have to occur at the same time. The method steps to the above-disclosed apparatus are inherent. (Column 6; line 5 through column 7; line 9)

Allowable Subject Matter

- 2. Claims 1-21 are allowed.
- 3. Claims 23-26, 28-31 and 33 -36 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. The following is a statement of reasons for the indication of allowable subject matter: With regards to claim 1, 4, 14 and 18, the prior art of record does not disclose or fairly teach the target voltage being set to be equal to $2V_{th}$, where V_{th} is a threshold voltage of the output transistor. With regards to claims 23,28 and 33 the first capacitor array having a capacitance about twice as large as that of a unit capacitor of a conventional array having a total capacitance being the same as the first total capacitance. With regards to claims 25,30, and35 the second capacitor array having a capacitance about twice as large as that of a unit capacitor of a conventional array having a total capacitance being the same as the second total capacitance.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimberly E Glenn whose telephone number is (571) 272-1761. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Kimberly E Glenn

Examiner

Art Unit 2817

keg

January 29, 2004

ARNOLD KINKEAD PRIMARY EXAMINER

WKu Ked